

Map Showing Geophysical Tracklines South-Central
Monterey Bay, California (Summer 1981)

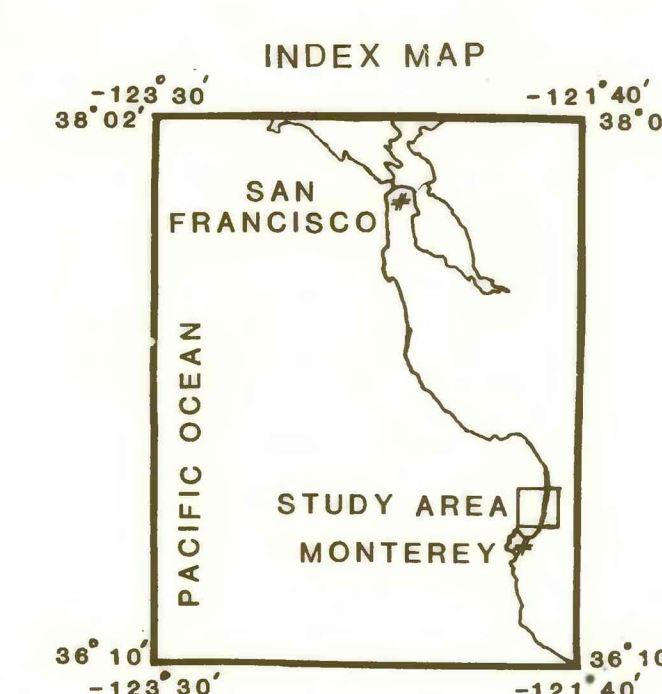
By
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The U.S. Geological Survey (Menlo Park, Calif.) initiated a multidisciplinary study of south-central Monterey Bay in July 1981. The first year baseline study involved shipboard research using the R.V. *David Johnston*, from which various types of data were collected, including deep-penetration seismic reflection profiles, fathometer profiles, underwater video transects, gravity cores and surface grab samples.

Geophysical tracklines were run using Uniboom and minisparker seismic systems. Trackline locations were determined by a shipboard mounted Motorola Mini-Ranger III precision navigation system. Navigation fixes were taken at 5-minute intervals and notated on both navigation logs and geophysical records.

Uniboom and minisparker systems were both run at a 0.25 - second sweep rate. Uniboom frequencies were filtered at 650-1400 Hz, while minisparker frequencies were filtered at 400-1200 Hz. Seismic records were also recorded on magnetic tape for post-laboratory processing.

Approximately 275 km of seismic reflection trackline was run during the first year baseline study. Laboratory processing and interpretation of these records is currently in progress.



LEGEND

- LINE DIRECTION and 5-MINUTE NAVIGATION FIX
- SOL START OF LINE
- EOL END OF LINE
- BREAK IN LINE (no data)

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